205220 97909001

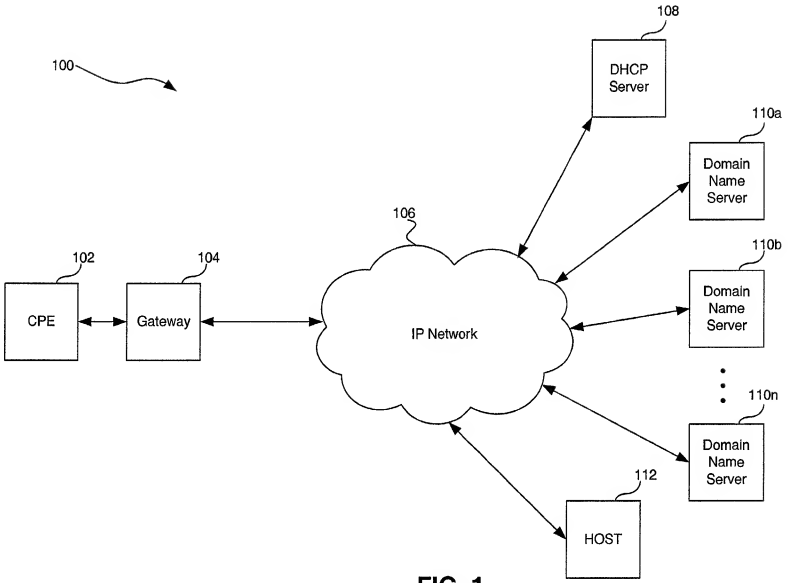

FIG. 1

0103-88.vsd/1

20522097908001

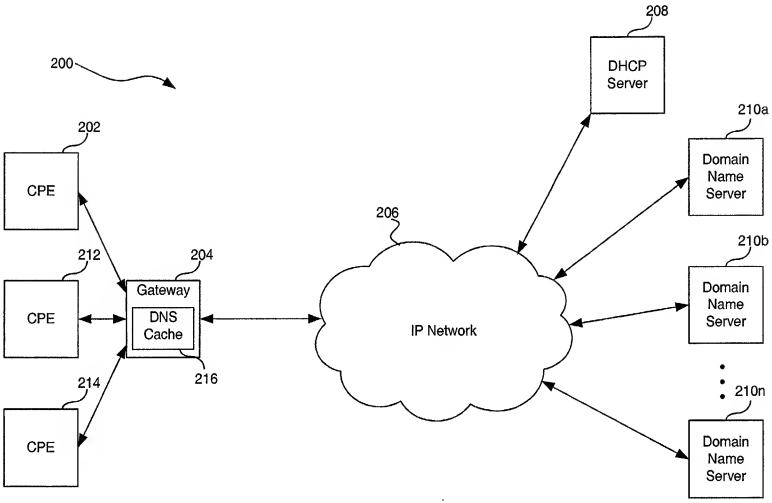

FIG. 2

1008076 .02520

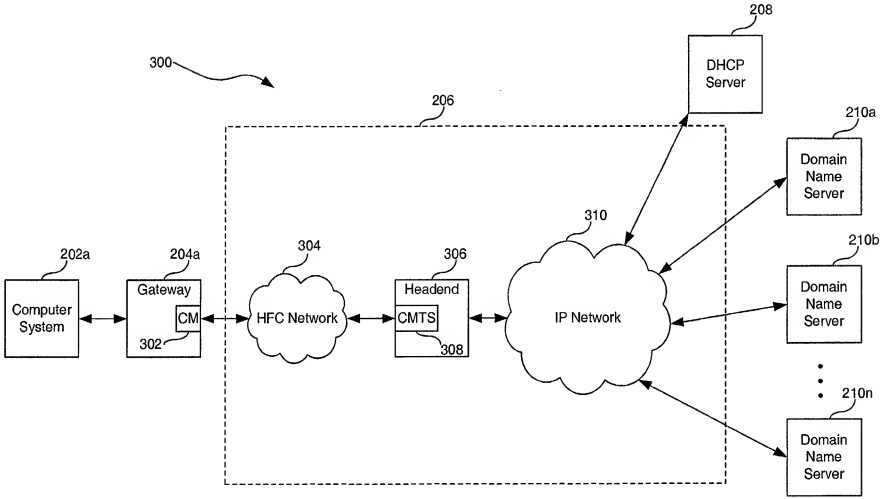

FIG. 3

0103-88.vsd/3

1000675-022502

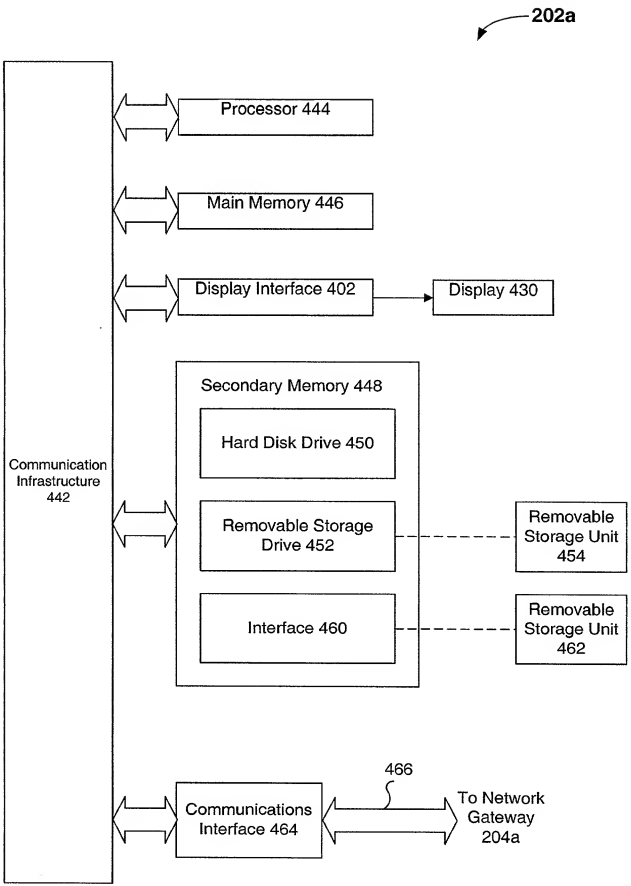

FIG. 4

20522D 9790800P

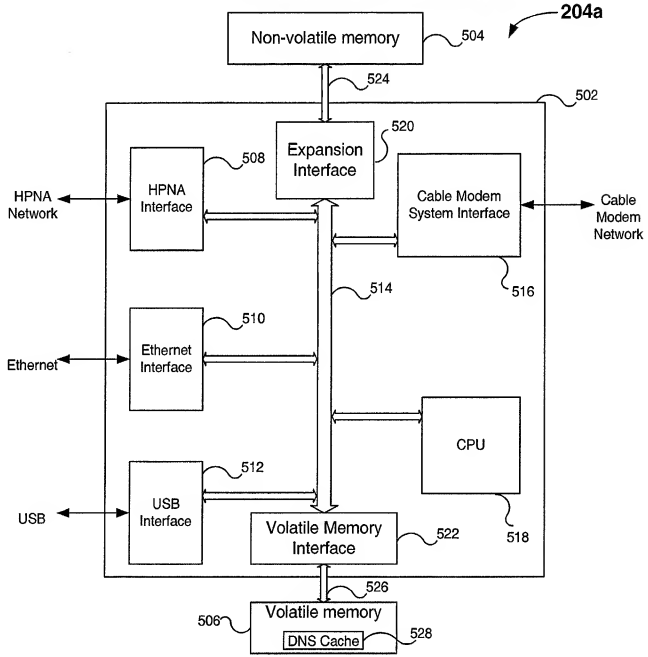

FIG. 5

0103-88.vsd/5

10030952-012502

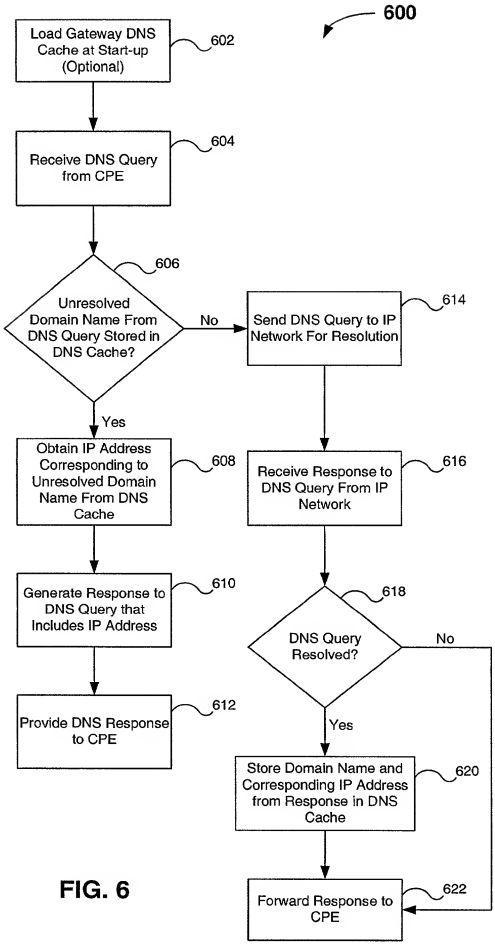

FIG. 6

0103-88.vsd/6

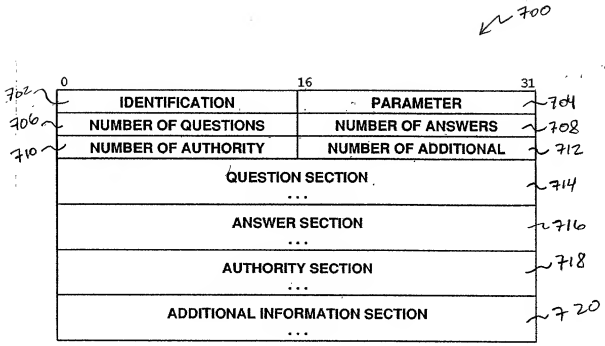

FIG. 7A

730

Bit of PARAMETER field	Meaning
0	Operation: 0 Query 1 Response
1-4	Query Type: 0 Standard 1 Inverse 2 Completion 1 (now obsolete) 3 Completion 2 (now obsolete)
5	Set if answer authoritative
6	Set if message truncated
7	Set if recursion desired
8	Set if recursion available
9-11	Reserved
12-15	Response Type: 0 No error 1 Format error in query 2 Server failure 3 Name does not exist

FIG. 7B

20020059508001

10080576-022502

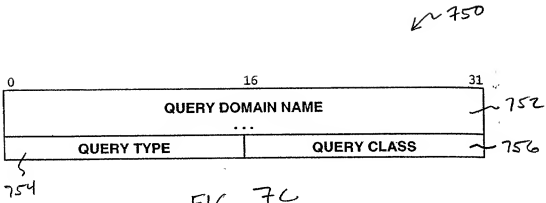

FIG. 7C

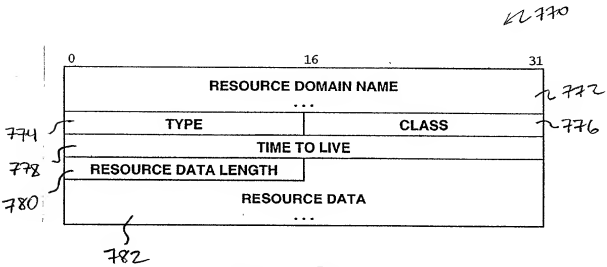

FIG. 7D

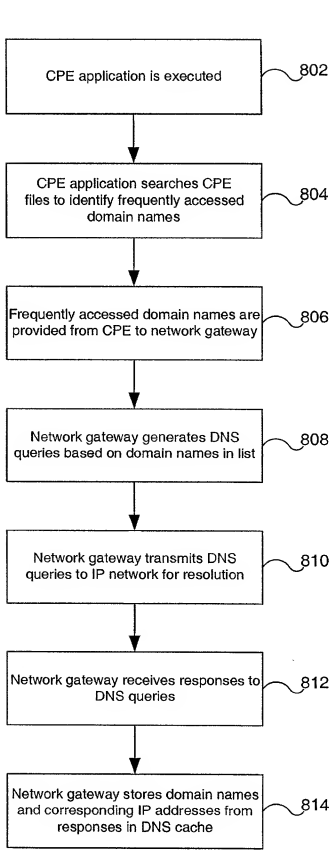

FIG. 8

0103-88.vsd/7

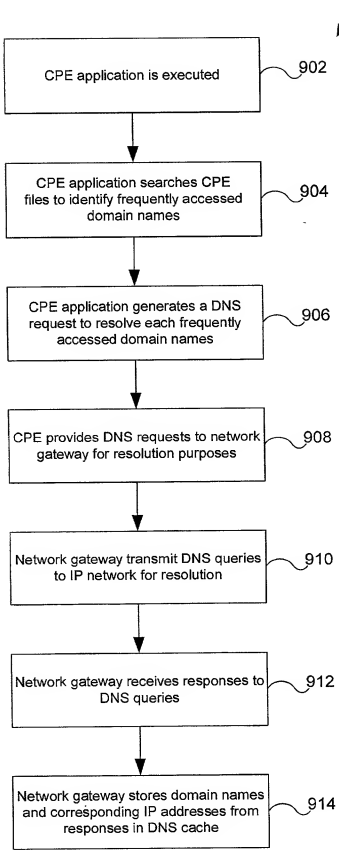
900
CPE application is executed
902
CPE application searches CPE files to identify frequently accessed domain names
904
CPE application generates a DNS request to resolve each frequently accessed domain names
906
CPE provides DNS requests to network gateway for resolution purposes
908
Network gateway transmit DNS queries to IP network for resolution
910
Network gateway receives responses to DNS queries
912
Network gateway stores domain names and corresponding IP addresses from responses in DNS cache
914

FIG. 9